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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/675,049	09/30/2003	Ioannis Dotsikas	MUH-12818	5871 ·	
24131	7590 02/16/2006		EXAMINER		
	LERNER GREENBERG STEMER LLP		LE, DUNG ANH		
	P O BOX 2480 HOLLYWOOD, FL 33022-2480		ART UNIT	PAPER NUMBER	
110221 00.			2818		
			DATE MAILED: 02/16/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_				
Office Action Summers	10/675,049	DOTSIKAS, IOANNIS					
Office Action Summary	Examiner	Art Unit					
	DUNG A. LE	2818					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence ad	Idress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>02 Sectors</u>	eptember 2004.						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>1-12</u> is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>13-17</u> is/are rejected.			•				
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>30 September 2003</u> is/a	are: a)⊠ accepted or b)⊡ objec	cted to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority document	s have been received.		•				
2.☐ Certified copies of the priority document	s have been received in Applicat	ion No					
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
,							
Attachment(s)	" ITT	(070 (42)	DL				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D		7 ~				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PT	O-152)				

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DETAILED ACTION

The previous Office action has been withdrawn. This a new ground of rejection.

Priority

Acknowledge is made of applicants' claim for foreign priority base on an application 102 45 553.8 filed in Germany on 9/30/2002.

Oath/Declaration

The oath/declaration filed on 9/30/2003 is acceptable.

Election/Restriction

Applicant's election with traverse of claims 13-17 is acknowledged.

Because Applicant did not distinctly and specifically point out the supposed error in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicants have the right to file a divisional, continuation or continuation-in-part application covering the subject matter of the non-elected claims 1-12...

The traversal is on the ground(s) that see the election paper. This is not found persuasive because the fields of search for method' and device claims are NOT

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coextensive and the determinations of patentability of method and device claims are different, that is process limitations and device limitations are given weight differently in determining the patentablitity of the claimed inventions. Also, the strategies for doing text searching of the device claims and method claims are different. Thus, separate searches are required.

The requirement is still deemed proper and is therefore made **FINAL**.

Specification

The specification is objected to for the following reason:

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed (see MPEP § 606.01).

A new abstract is required that is clearly indicative the invention to which the claims are directed.

Note that, the claims are directed to furnace for the vapor phase deposition instead of to a method for vapor phase deposition.

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

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Claim Rejections

Set of claims 13-17:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13- 15 are rejected under 35 USC 102 (b) as being anticipated by Yamaga et al. (5484484/IDS).

Yamaha et al. teach a furnace 23 for vapor phase depositing components contained in a process gas onto a plurality of semiconductor substrates W, the furnace comprising:

a process space for receiving the semiconductor substrates disposed one above another at a short distance to form a stack;

a first feed/discharge line connected to said process space; a second feed/discharge line connected to said process space (V1/V2/V3/V4);

a device for producing a process gas flow (figs. 3A- 3B), said device for producing said process gas flow connected to said first feed/discharge line and/or said second feed/discharge line causing the process gas to flow laterally past the stack defining a main flow direction;

a heating device 22; and

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a regulating unit for regulating a magnitude of said process gas flow and for changing the main flow direction by 180° while continuing to flow laterally past the stack (figs. 3A- 3B).

Regarding claim 14, wherein said first feed/discharge line and/or said second feed/discharge line are configured at opposite sides of said process space (right side and left side of furnace).

Regarding claim 15, changing the main flow direction of said process gas flow at intervals in accordance with a variable time pattern (figs. 3A-B).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16- 17 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Yamaga et al. in view of the following remark.

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Yamaga et al. teach the claimed invention as applied to claim 13 including a pressure detected by a pressure gage 52, but fail to teach a measuring unit for detecting a quantity and/or a distribution of the components deposited onto the semiconductor substrate and a control unit connected to said measuring unit, said control unit for an online control of said device for producing a process gas flow as cited in current claims 16-17.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to utilize a measuring unit for detecting a quantity and/or a distribution of the components deposited onto the semiconductor substrate and a control unit connected to said measuring unit, said control unit for an online control of said device for producing a process gas flow in Yamage et al. 's furnace in order to obtain the best results in detection and feedback in any automated control system as desired.

When responding to the office action, Applicants' are advice to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Tuesday and Thursday 6:00am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The central fax phone numbers for the organization where this application or proceeding is assigned are (571)272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUNG A. LE Primary Examiner
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